



MAJOR SOURCE OPERATING PERMIT

Permittee: **Elk Corporation of Alabama**

Facility Name: **Elk Corporation of Alabama**

Facility No.: 413-0018

Location: Tuscaloosa, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Ala. Code §§22-28-1 to 22-28-23 (1997 Rplc. Vol. and 2005 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, Ala. Code §§22-22A-1 to 22-22A-15 (1997 Rplc. Vol. and 2005 Cum. Supp.), and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: *Draft*

Effective Date: *Draft*

Expiration Date: *Draft*

TABLE OF CONTENTS

GENERAL PERMIT PROVISOS.....	5
SUMMARY PAGE FOR SHINGLE MANUFACTURING LINE 1.....	17
PROVISOS FOR SHINGLE MANUFACTURING LINE 1	18
<i>Applicability.....</i>	<i>18</i>
<i>Emission Standards</i>	<i>18</i>
<i>Emission Monitoring</i>	<i>18</i>
<i>Recordkeeping and Reporting Requirements</i>	<i>19</i>
SUMMARY PAGE FOR FILLER PRODUCTION	20
PROVISOS FOR FILLER PRODUCTION	21
<i>Applicability.....</i>	<i>21</i>
<i>Compliance and Performance Test Methods and Procedures.....</i>	<i>21</i>
<i>Emission Monitoring</i>	<i>22</i>
<i>Recordkeeping and Reporting Requirements</i>	<i>22</i>
SUMMARY PAGE FOR LINE 1 FILLER HANDLING SYSTEM.....	23
PROVISOS FOR LINE 1 FILLER HANDLING SYSTEM	24
<i>Applicability.....</i>	<i>24</i>
<i>Emission Standards</i>	<i>24</i>
<i>Compliance and Performance Test Methods and Procedures.....</i>	<i>24</i>
<i>Emission Monitoring</i>	<i>25</i>
<i>Recordkeeping and Reporting Requirements</i>	<i>25</i>
SUMMARY PAGE FOR LINE 1 GRANULE HANDLING AND STORAGE.....	26
PROVISOS FOR LINE 1 GRANULE HANDLING AND STORAGE.....	27
<i>Applicability.....</i>	<i>27</i>
<i>Compliance and Performance Test Methods and Procedures.....</i>	<i>27</i>
<i>Emission Monitoring</i>	<i>27</i>
<i>Recordkeeping and Reporting Requirements</i>	<i>28</i>

SUMMARY PAGE FOR SHINGLE MANUFACTURING LINE 2.....	29
PROVISOS FOR SHINGLE MANUFACTURING LINE 2	30
<i>Applicability.....</i>	<i>30</i>
<i>Emission Standards</i>	<i>30</i>
<i>Compliance and Performance Test Methods and Procedures.....</i>	<i>31</i>
<i>Emission Monitoring</i>	<i>31</i>
<i>Recordkeeping and Reporting Requirements</i>	<i>32</i>
SUMMARY PAGE FOR LINE 2 FILLER HANDLING SYSTEM.....	33
PROVISOS FOR LINE 2 FILLER HANDLING SYSTEM	34
<i>Applicability.....</i>	<i>34</i>
<i>Compliance and Performance Test Methods and Procedures.....</i>	<i>34</i>
<i>Emission Monitoring</i>	<i>34</i>
<i>Recordkeeping and Reporting Requirements</i>	<i>35</i>
SUMMARY PAGE FOR LINE 2 GRANULE HANDLING AND STORAGE.....	36
PROVISOS FOR LINE 2 GRANULE HANDLING AND STORAGE.....	37
<i>Applicability.....</i>	<i>37</i>
<i>Emission Standards</i>	<i>37</i>
<i>Compliance and Performance Test Methods and Procedures.....</i>	<i>37</i>
<i>Emission Monitoring</i>	<i>38</i>
<i>Recordkeeping and Reporting Requirements</i>	<i>38</i>
SUMMARY PAGE FOR HEAT TRANSFER FLUID HEATING SYSTEM.....	39
PROVISOS FOR HEAT TRANSFER FLUID HEATING SYSTEM	40
<i>Applicability.....</i>	<i>40</i>
<i>Emission Standards</i>	<i>40</i>
<i>Compliance and Performance Test Methods and Procedures.....</i>	<i>40</i>
<i>Emission Monitoring</i>	<i>40</i>
<i>Recordkeeping and Reporting Requirements</i>	<i>40</i>

SUMMARY PAGE FOR STORAGE TANKS	41
PROVISOS FOR STORAGE TANKS.....	42
<i>Applicability.....</i>	<i>42</i>
<i>Emission Standards</i>	<i>42</i>
<i>Compliance and Performance Test Methods and Procedures.....</i>	<i>42</i>
<i>Emission Monitoring</i>	<i>42</i>
<i>Recordkeeping and Reporting Requirements</i>	<i>43</i>

DRAFT

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.</p> <p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p> <p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p> <p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	<p>Rule 335-3-16-.02(6)</p> <p>Rule 335-3-16-.12(2)</p> <p>Rule 335-3-16-.05(e)</p> <p>Rule 335-3-16-.05(f)</p> <p>Rule 335-3-16-.05(g)</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>5. <u>Termination for Cause</u></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	<p>Rule 335-3-16-.05(h)</p>
<p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	<p>Rule 335-3-16-.05(i)</p>
<p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p>	<p>Rule 335-3-16-.05(j)</p>
<p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p>	<p>Rule 335-3-16-.05(k)</p>
<p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	<p>Rule 335-3-16-.07(a)</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p> <ul style="list-style-type: none"> (a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit; (b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; (c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. 	<p>Rule 335-3-16-.07(b)</p>
<p>11. <u>Compliance Provisions</u></p> <ul style="list-style-type: none"> (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. (b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. 	<p>Rule 335-3-16-.07(c)</p>
<p>12. <u>Compliance Certification</u></p> <p>A compliance certification shall be submitted annually within 60 days after the anniversary of the effective date of this permit.</p> <ul style="list-style-type: none"> (a) The compliance certification shall include the following: <ul style="list-style-type: none"> (1) The identification of each term or condition of this 	<p>Rule 335-3-16-.07(e)</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>permit that is the basis of the certification;</p> <p>(2) The compliance status;</p> <p>(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);</p> <p>(4) Whether compliance has been continuous or intermittent;</p> <p>(5) Such other facts as the Department may require to determine the compliance status of the source;</p> <p>(b) The compliance certification shall be submitted to:</p> <p style="padding-left: 40px;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p style="padding-left: 80px;">and to:</p> <p style="padding-left: 40px;">Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303</p>	
<p>13. <u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.</p>	<p>Rule 335-3-16-.13(5)</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p> <p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	
<p>14. <u>Additional Rules and Regulations</u></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>15. <u>Equipment Maintenance or Breakdown</u></p> <p>(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <p>(1) Identification of the specific facility to be taken out of service as well as its location and permit number;</p> <p>(2) The expected length of time that the air pollution control equipment will be out of service;</p>	<p>Rule 335-3-1-.07(1), (2)</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>(3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;</p> <p>(4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;</p> <p>(5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.</p> <p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.</p>	
<p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>Rule 335-3-1-.08</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>18. <u>Fugitive Dust</u></p> <p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <ol style="list-style-type: none"> (1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic; (2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created; (3) By paving; (4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions; <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.</p>	<p>Rule 335-3-4-.02</p>
<p>19. <u>Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>Rule 335-3-16-.13 and .14</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>20. <u>Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ul style="list-style-type: none"> (1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; (5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement. <p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit.</p>	<p>Rule 335-3-16-.05(c)2.</p>
<p>21. <u>Reporting Requirements</u></p> <p>(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).</p> <p>(b) Deviations from permit requirements shall be reported within 48 hours or 2 working day of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p>	<p>Rule 335-3-16-.05(c)3.</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>22. <u>Emission Testing Requirements</u></p> <p>Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.</p> <p>The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <ol style="list-style-type: none"> (1) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests. (2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning). (3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity. (4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances. <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p>	<p>Rule 335-3-1-.05(3) and Rule 335-3-1-.04(1)</p> <p>Rule 335-3-1-.04</p> <p>Rule 335-3-1-.04</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>23. <u>Payment of Emission Fees</u></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.</p>	<p>Rule 335-1-7-.04</p>
<p>24. <u>Other Reporting and Testing Requirements</u></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	<p>Rule 335-3-1-.04(1)</p>
<p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.</p>	<p>40 CFR 82</p>
<p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <ul style="list-style-type: none"> (a) The owner or operator shall comply with the provisions in 40 CFR Part 68. (b) The owner or operator shall submit one of the following: <ul style="list-style-type: none"> (1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date 	<p>40 CFR Part 68</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>provided in 40 CFR Part 68 § 68.10(a) or,</p> <p>(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.</p>	
<p>27. <u>Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.</p>	<p>Rule 335-3-14-.01(1)(d)</p>
<p>28. <u>Circumvention</u></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in the reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p>	<p>Rule 335-3-1-.10</p>
<p>29. <u>Visible Emissions</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	<p>Rule 335-3-4-.01(1)</p>
<p>30. <u>Fuel-Burning Equipment</u></p> <p>(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.</p> <p>(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.</p>	<p>Rule 335-3-4-.03</p> <p>Rule 335-3-5-.01</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>31. <u>Process Industries – General</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.</p> <p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p>	<p>Rule 335-3-4-.04</p> <p>Rule 335-3-1-.05</p>

Summary Page for Shingle Manufacturing Line 1

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP 5-1	Coater	PM	(See General Proviso 31)	ADEM Admin. Code R. 335-3-4-.04
EP 5-1	Coater	VOC	N/A	N/A
EP 5-1	Coater	Formaldehyde	N/A	N/A
EP 5-1	Coater	PAH	0.0002 lb/ton	40 CFR Part 63 Subpart AAAAAAA
EP 5-1	Coater	Opacity	(See General Proviso 29)	ADEM Admin. Code 335-3-4-.01(1)
Fugitive	Coating Mixer, Sealant Applicator, and Adhesive Applicator	VOC	N/A	N/A
Fugitive	Coating Mixer, Sealant Applicator, and Adhesive Applicator	Formaldehyde	N/A	N/A
Fugitive	Coating Mixer, Sealant Applicator, and Adhesive Applicator	Opacity	(See General Proviso 29)	ADEM Admin. Code 335-3-4-.01(1)

Provisos for Shingle Manufacturing Line 1

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of 40 CFR 63, Subpart AAAAAAA, "National Emissions Standards for Hazardous Air Pollutants: Asphalt Processsing and Asphalt Roofing Manufacturing.	40 CFR Part 63 Subpart AAAAAAA
<u>Emission Standards</u>	
1. These sources are subject to emission standards listed in General Proviso 29 and General Proviso 31.	Rule 335-3-4-.01(1) Rule 335-3-4-.04
2. Polycyclic Aromatic Hydrocarbon (PAH) emissions from the Coater (EP 5-1) shall not exceed 0.0002 lb/ton.	40 CFR Part 63 Subpart AAAAAAA
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05
3. EPA Reference Method 18 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with Polycyclic Aromatic Hydrocarbons emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. The facility shall perform a visual check, once per week, of the stacks associated with these units. Whenever visible emissions greater than fifteen (15%) percent are observed, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two (2) hours.	Rule 335-3-16-.05(c)(1)

Federally Enforceable Provisos	Regulations
<ol style="list-style-type: none"> 2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced. 	
<u>Recordkeeping and Reporting Requirements</u>	
<ol style="list-style-type: none"> 1. Source observation, corrective action, and all maintenance records of each source permitted under this unit will be documented and available for inspection. 	Rule 335-3-16-.05(c)
<ol style="list-style-type: none"> 2. The permittee shall submit a written report of exceedence of the stack opacity to the Department semi-annually. 	Rule 335-3-16-.05(c)

Summary Page for Filler Production

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP 6-1	Roller Mill 1 with Baghouse	PM	0.44 lb/hr	ADEM Admin. Code R. 335-3-14-.01(1)(g)
EP 6-1	Roller Mill 1 with Baghouse	Opacity	(See General Proviso 29)	ADEM Admin. Code R. 335-3-4-.01(1)
EP 6-2	Roller Mill 2 with Baghouse	PM	0.44 lb/hr	ADEM Admin. Code R. 335-3-14-.01(1)(g)
EP 6-2	Roller Mill 2 with Baghouse	Opacity	(See General Proviso 29)	ADEM Admin. Code R. 335-3-4-.01(1)
EP 6-3	(3) Storage Silos with Baghouse	PM	0.22 lb/hr	ADEM Admin. Code R. 335-3-4-.01 (Anti-PSD)
EP 6-3	(3) Storage Silos with Baghouse	Opacity	1%	40 CFR Part 60 Subpart UU
Fugitive	Truck Unloading, Belt Conveyor 1 & 2 Transfer Points, and the Rock Storage Tank	Opacity	1%	40 CFR Part 60 Subpart UU

Provisos for Filler Production

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of 40 CFR 60 Subpart UU, "Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture".	40 CFR Part 60 Subpart UU
3. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-14-.04
<u>Emission Standards</u>	
1. The Roller Mills are subject to emission standards listed in General Proviso 29 and General Proviso 31.	Rule 335-3-4-.01(1) Rule 335-3-4-.04
2. Particulate Matter emissions from the Roller Mill 1 with Baghouse (EP 6-1) shall not exceed the allowable set by Rule 335-3-4-.04.	Rule 335-3-4-.04
3. Particulate Matter emissions from the Roller Mill 2 with Baghouse (EP 6-2) shall not exceed the allowable set by Rule 335-3-4-.04.	Rule 335-3-4-.04
4. Particulate Matter emissions from the (3) Limestone Storage Silos with Baghouse (EP 6-3) shall not exceed 0.22 lb/hr.	Rule 335-3-14-.04
5. The emissions from the (3) Limestone Storage Silos with Baghouse (EP 6-3), the Truck Unloading, Belt Conveyors 1 & 2 transfer points, and The Rock Storage Tank shall not exceed an opacity greater than 1%.	40 CFR 60.472(d)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05

Federally Enforceable Provisos	Regulations
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. The facility shall perform a visual check, once per week, of the stacks associated with these units.	Rule 335-3-16-.05(c)(1)
2. If the instantaneous opacity observed from the Roller Mill 1 (EP 6-1) and/or Roller Mill 2 (EP 6-2) is greater than ten (10%) percent, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two (2) hours.	Rule 335-3-16-.05(c)
3. If any visible emissions are observed from the (3) Limestone Storage Silos with Baghouse (EP 6-3), the Truck Unloading Area, Belt Conveyors 1 & 2 transfer points, and/or the Rock Storage Tank, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two (2) hours.	Rule 335-3-16-.05(c)
4. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.	Rule 335-3-16-.05(c)
5. A properly maintained and operated device shall be utilized to measure the pressure differential between the inlet and exhaust of each baghouse to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differential shall be checked on at least a weekly basis. Whenever the pressure differential is outside the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range are to be initiated within two hours.	Rule 335-3-16-.05(c)
<u>Recordkeeping and Reporting Requirements</u>	
1. Source observation, corrective action, and all maintenance records of each source permitted under this unit will be documented and available for inspection.	Rule 335-3-16-.05(c)
2. The permittee shall submit a written report of exceedence of the stack opacity to the Department semi-annually.	Rule 335-3-16-.05(c)

Summary Page for Line 1 Filler Handling System

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP 7-1	Filler Silo with Baghouse	PM	0.36 lb/hr	ADEM Admin. Code R. 335-3-14-.04
EP 7-1	Filler Silo with Baghouse	Opacity	(See General Proviso 29)	ADEM Admin. Code R. 335-3-4-.01(1)
EP 7-2	Daybin with Baghouse	PM	0.36 lb/hr	ADEM Admin. Code R. 335-3-14-.04
EP 7-2	Daybin with Baghouse	Opacity	(See General Proviso 29)	ADEM Admin. Code R. 335-3-4-.01(1)
EP 7-3	Rotary Kiln and 4.7 MMBtu/hr Burner with Baghouse	PM	0.42 lb/hr	ADEM Admin. Code R. 335-3-14-.04
EP 7-3	Rotary Kiln and 4.7 MMBtu/hr Burner with Baghouse	Opacity	(See General Proviso 29)	ADEM Admin. Code R. 335-3-4-.01(1)
EP 7-3	Rotary Kiln and 4.7 MMBtu/hr Burner with Baghouse	SO ₂	N/A	ADEM Admin Code R. 335-3-5-.01
EP 7-3	Rotary Kiln and 4.7 MMBtu/hr Burner with Baghouse	NO _x	N/A	N/A
EP 7-3	Rotary Kiln and 4.7 MMBtu/hr Burner with Baghouse	CO	N/A	N/A
EP 7-3	Rotary Kiln and 4.7 MMBtu/hr Burner with Baghouse	VOC	N/A	N/A

Provisos for Line 1 Filler Handling System

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of 40 CFR 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants".	40 CFR Part 60 Subpart OOO
3. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-14-.04
<u>Emission Standards</u>	
1. These units are subject to emission standards listed in General Proviso 29.	Rule 335-3-4-.01(1)
2. Particulate Matter emissions from the Filler Silo with Baghouse (EP 7-1) shall not exceed 0.36 lb/hr.	Rule 335-3-14-.04
3. Particulate Matter emissions from the Daybin with Baghouse (EP 7-2) shall not exceed 0.36 lb/hr.	Rule 335-3-14-.04
4. Particulate Matter emissions from the Rotary Kiln with Baghouse (EP 7-3) shall not exceed 0.42 lb/hr.	Rule 335-3-14-.04
5. The Rotary Kiln shall burn only natural gas.	Rule 335-3-16-.05(a)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05

Federally Enforceable Provisos	Regulations
<u>Emission Monitoring</u> <ol style="list-style-type: none"> 1. The facility shall perform a visual check, once per week, of the stacks associated with these units. If instantaneous visible emissions in excess of 10% opacity are noted, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two (2) hours. 2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced. 3. A properly maintained and operated device shall be utilized to measure the pressure differential between the inlet and exhaust of the baghouses to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differential shall be checked on at least a weekly basis. Whenever the pressure differential is outside the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range are to be initiated within two hours. 	<p>Rule 335-3-16-.05(c)(1)</p> <p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p>
<u>Recordkeeping and Reporting Requirements</u> <ol style="list-style-type: none"> 1. Source observation, corrective action, and all maintenance records of each source permitted under this unit will be documented and available for inspection. 2. The permittee shall submit a written report of exceedence of the stack opacity to the Department semi-annually. 	<p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p>

Summary Page for Line 1 Granule Handling and Storage

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP 8-1	Truck Unloading with Baghouse	PM	(See General Proviso 31)	ADEM Admin. Code R. 335-3-4-.04
EP 8-1	Truck Unloading with Baghouse	Opacity	1%	40 CFR Part 60 Subpart UU
EP 8-2	Bucket Elevator with Baghouse	PM	(See General Proviso 31)	ADEM Admin. Code R. 335-3-4-.04
EP 8-2	Bucket Elevator with Baghouse	Opacity	1%	40 CFR Part 60 Subpart UU
EP 8-3	Conveyor and Bucket Elevator to Tripper with Baghouse	PM	(See General Proviso 31)	ADEM Admin. Code R. 335-3-4-.04
EP 8-3	Conveyor and Bucket Elevator to Tripper with Baghouse	Opacity	1%	40 CFR Part 60 Subpart UU
EP 8-4	Headlap Silo with Bin Vent	PM	(See General Proviso 31)	ADEM Admin. Code R. 335-3-4-.04
EP 8-4	Headlap Silo with Bin Vent	Opacity	1%	40 CFR Part 60 Subpart UU
EP 8-5	Backsurfacing Silo with Bin Vent	PM	(See General Proviso 31)	ADEM Admin. Code R. 335-3-4-.04
EP 8-5	Backsurfacing Silo with Bin Vent	Opacity	1%	40 CFR Part 60 Subpart UU
EP 8-6	Backsurfacing Receiving Silo with Bin Vent	PM	(See General Proviso 31)	ADEM Admin. Code R. 335-3-4-.04
EP 8-6	Backsurfacing Receiving Silo with Bin Vent	Opacity	1%	40 CFR Part 60 Subpart UU

Provisos for Line 1 Granule Handling and Storage

Federally Enforceable Provisos	Regulations
<u>Applicability</u> <ol style="list-style-type: none"> 1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits". 2. This source is subject to the applicable requirements of 40 CFR 60 Subpart UU, "Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture". 	<p>Rule 335-3-16-.03</p> <p>40 CFR Part 60 Subpart UU</p>
<u>Emission Standards</u> <ol style="list-style-type: none"> 1. These units are subject to emission standards listed in General Proviso 31. 2. The emissions from these sources shall not exceed an opacity greater than 1%. 	<p>Rule 335-3-4-.04</p> <p>40 CFR 60.472(d)</p>
<u>Compliance and Performance Test Methods and Procedures</u> <ol style="list-style-type: none"> 1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions. 2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions. 	<p>Rule 335-3-1-.05</p> <p>Rule 335-3-1-.05</p>
<u>Emission Monitoring</u> <ol style="list-style-type: none"> 1. The facility shall perform a visual check, once per week, of the stacks associated with these units. If any visible emissions are noted, maintenance inspections and/or corrective action to eliminate the visible emissions are to be initiated within two (2) hours. 2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been eliminated. 	<p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p>

Federally Enforceable Provisos**Regulations**

3. A properly maintained and operated device shall be utilized to measure the pressure differential between the inlet and exhaust of each baghouse to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differential shall be checked on at least a weekly basis. Whenever the pressure differential is outside the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range are to be initiated within two hours.

Rule 335-3-16-.05(c)

Recordkeeping and Reporting Requirements

1. Source observation, corrective action, and all maintenance records of each source permitted under these units will be documented and available for inspection.
2. The permittee shall submit a written report of exceedence of the stack opacity to the Department semi-annually.

Rule 335-3-16-.05(c)

Rule 335-3-16-.05(c)

Summary Page for Shingle Manufacturing Line 2

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP 2-1	Asphalt Coater, Horizontal Mixer, Surge Tank, Sealant use Tank, Adhesive Mixture Tank, Adhesive Applicator, Sealant Applicator, (2) 100,000 Gallon Asphalt Storage Tanks, and (2) 15,000 Gallon Sealant and Adhesive Storage Tanks	PM	the lesser of 0.06 lb/ton of shingles produced or the allowable set by 335-3-4-.04	40 CFR Part 63 Subpart AAAAAAA
EP 2-1	Asphalt Coater, Horizontal Mixer, Surge Tank, Sealant use Tank, Adhesive Mixture Tank, Adhesive Applicator, Sealant Applicator, (2) 100,000 Gallon Asphalt Storage Tanks, and (2) 15,000 Gallon Sealant and Adhesive Storage Tanks	VOCs	N/A	N/A
EP 2-1	Asphalt Coater, Horizontal Mixer, Surge Tank, Sealant use Tank, Adhesive Mixture Tank, Adhesive Applicator, Sealant Applicator, (2) 100,000 Gallon Asphalt Storage Tanks, and (2) 15,000 Gallon Sealant and Adhesive Storage Tanks	Formaldehyde	N/A	N/A
EP 2-1	Asphalt Coater, Horizontal Mixer, Surge Tank, Sealant use Tank, Adhesive Mixture Tank, Adhesive Applicator, and Sealant Applicator	Opacity	20%	40 CFR Part 60 Subpart UU
EP 2-1	(2) 100,000 Gallon Asphalt Storage Tanks, and (2) 15,000 Gallon Sealant and Adhesive Storage Tanks	Opacity	0%	40 CFR Part 60 Subpart UU
EP 2-2	Line 2 Granule Application System and Filler Heater with Baghouse	PM	9.24 lb/hr	ADEM Admin. Code R. 335-3-14-.04 (Anti-PSD)
EP 2-2	Line 2 Granule Application System and Filler Heater with Baghouse	Opacity	(See General Proviso 29)	ADEM Admin. Code R. 335-3-4-.01(1)

Provisos for Shingle Manufacturing Line 2

Federally Enforceable Provisos	Regulations
<u>Applicability</u> <ol style="list-style-type: none"> 1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits". 2. These sources are subject to the applicable requirements of 40 CFR 63, Subpart AAAAAAA, "National Emissions Standards for Hazardous Air Pollutants: Asphalt Processsing and Asphalt Roofing Manufacturing. 3. This source is subject to the applicable requirements of 40 CFR 60 Subpart UU, "Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture". 4. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]". 	<p>Rule 335-3-16-.03</p> <p>40 CFR Part 63 Subpart AAAAAAA</p> <p>40 CFR Part 60 Subpart UU</p> <p>Rule 335-3-14-.04</p>
<u>Emission Standards</u> <ol style="list-style-type: none"> 1. These Granule Application system and filler heater with baghouse (EP 2-2) is subject to emission standards listed in General Proviso 29. 2. Particulate Matter emissions from the coater (EP 2-1) shall not exceed 0.06 lb/ton of asphalt shingles produced. 3. Particulate Matter emissions from the Granule Application System and Filler Heater with Baghouse (EP 2-2) shall not exceed 9.24 lbs/hr. 4. The exhaust gases from the coater (EP 2-1) shall not exceed an opacity greater than 20%. 5. The saturator/coater capture system shall not discharge any visible emission for more than 20 percent of any period of consecutive valid observations totaling 60 minutes. 6. The exhaust gases from any asphalt storage tank shall not exceed an opacity greater than 0%, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing. The control device shall not be bypassed during this 15-minute period. If, however, the emissions from any asphalt storage tank are ducted to a control device for a saturator/coater, the combined emissions shall meet the emission limit contained in 40 CFR 60 Subpart UU, §60.472(a) during the time the saturator/coater control device is 	<p>Rule 335-3-4-.01(1)</p> <p>40 CFR 63.11561(b))</p> <p>Rule 335-3-14-.04 (Anti-PSD)</p> <p>40 CFR 60.472(a)(2)</p> <p>40 CFR 60.472(a)(3)</p> <p>40 CFR 60.472(c)</p>

Federally Enforceable Provisos	Regulations
<p>operating. At any other time the asphalt storage tanks must meet the opacity limit specified above for storage tanks.</p>	
<p><u>Compliance and Performance Test Methods and Procedures</u></p>	
<p>1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.</p>	<p>Rule 335-3-1-.05</p>
<p>2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.</p>	<p>Rule 335-3-1-.05</p>
<p>3. EPA Reference Method 22 of Appendix A of CFR; Title 40, Part 60 (Latest Edition), with the additions in 40 CFR 60.474(d), will be used in determining compliance with 40 CFR 60.472(a)(3).</p>	<p>40 CFR 60.474(d)</p>
<p><u>Emission Monitoring</u></p>	
<p>1. The facility shall perform a visual check, once per week, of the stack associated with the Granule Application System and Filler Heater with Baghouse (EP 2-2). If instantaneous visible emissions in excess of 15% opacity are noted from the Granule Application System and Filler Heater with Baghouse (EP 2-2), maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two (2) hours.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>3. The inlet temperature of th HVAF (EP 2-1) shall be continuously monitored and recorded. The monitoring device shall have an accuracy of plus or minus 15 degrees Celsius over its range.</p>	<p>40 CFR 60.473(a)</p>
<p>4. A properly maintained and operated device shall be utilized to measure the pressure differential between the inlet and exhaust of the baghouse (EP 2-2) to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differential shall be checked on at least a weekly basis. Whenever the pressure differential is outside the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range are to be initiated within two hours.</p>	<p>Rule 335-3-16-.05(c)</p>

Federally Enforceable Provisos**Regulations**

5. A properly maintained and operated device shall be utilized to measure the pressure differential between the inlet and exhaust of the HVAF (EP 2-1) to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differential shall be checked on at least a weekly basis. Whenever the pressure differential is outside the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range are to be initiated within two hours.

Rule 335-3-16-.05(c)

Recordkeeping and Reporting Requirements

1. Source observations, HVAF inlet temperatures, baghouse pressure differentials, corrective action, and all maintenance records of each source permitted under these units will be documented and available for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be available to the permitting authority upon request.

Rule 335-3-16-.05(c)

2. The permittee shall submit a written report of exceedence of the stack opacity to the Department semi-annually.

Rule 335-3-16-.05(c)

Summary Page for Line 2 Filler Handling System

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP 3-1	1440 Ton Filler Silo with Baghouse	PM	0.54 lb/hr	ADEM Admin. Code R. 335-3-14-.04 (Anit-PSD)
EP 3-1	1440 Ton Filler Silo with Baghouse	Opacity	1%	40 CFR Part 60 Subpart UU
EP 3-2	30 Ton Filler Receiving Bin with Baghouse	PM	0.37 lb/hr	ADEM Admin. Code R. 335-3-14-.04 (Anit-PSD)
EP 3-2	30 Ton Filler Receiving Bin with Baghouse	Opacity	1%	40 CFR Part 60 Subpart UU

Provisos for Line 2 Filler Handling System

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-14-.04
3. This source is subject to the applicable requirements of 40 CFR 60 Subpart UU, "Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture".	40 CFR Part 60 Subpart UU
<u>Emission Standards</u>	
1. Particulate Matter emissions from the 1440 Ton Filler Silo with Baghouse (EP 3-1) shall not exceed 0.54 lbs/hr.	Rule 335-3-14-.04 (Anti-PSD)
2. Particulate Matter emissions from the 30 Ton Filler Receiving Bin with Baghouse (EP 3-2) shall not exceed 0.37 lbs/hr.	Rule 335-3-14-.04 (Anti-PSD)
3. The emissions from these units shall not exceed an opacity greater than 1%.	40 CFR Part 60 Subpart UU
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. The facility shall perform a visual check, once per week, of the stacks associated with these units. If any visible emissions are noted, maintenance inspections and/or corrective action to eliminate the visible emissions are to be initiated within two (2) hours.	Rule 335-3-16-.05(c)

Federally Enforceable Provisos	Regulations
Federally Enforceable Provisos	Regulations
2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.	Rule 335-3-16-.05(c)
3. A properly maintained and operated device shall be utilized to measure the pressure differential between the inlet and exhaust of the baghouses to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differential shall be checked on at least a weekly basis. Whenever the pressure differential is outside the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range are to be initiated within two hours.	Rule 335-3-16-.05(c)
<u>Recordkeeping and Reporting Requirements</u>	
1. Source observations, baghouse pressure differentials, corrective action, and all maintenance records of each source permitted under these units will be documented and available for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be available to the permitting authority upon request.	Rule 335-3-16-.05(c)
2. The permittee shall submit a written report of exceedence of the stack opacity to the Department semi-annually.	Rule 335-3-16-.05(c)

Summary Page for Line 2 Granule Handling and Storage

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP 4-1	Line 2 Granule Storage Transfer Points and 24 Storage Silos with Baghouse	PM	1.30 lb/hr	ADEM Admin. Code R. 335-3-14-.04 (Anit-PSD)
EP 4-1	Line 2 Granule Storage Transfer Points and 24 Storage Silos with Baghouse	Opacity	1%	40 CFR Part 60 Subpart UU
EP 4-2	Line 2 Butt Granule Unloading and Transfer Points with Baghouse	PM	0.82 lb/hr	ADEM Admin. Code R. 335-3-14-.04 (Anit-PSD)
EP 4-2	Line 2 Butt Granule Unloading and Transfer Points with Baghouse	Opacity	1%	40 CFR Part 60 Subpart UU
EP 4-3	Line 2 Headlap/BackSurfacing Unloading and Transfer Points with Baghouse	PM	0.82 lb/hr	ADEM Admin. Code R. 335-3-14-.04 (Anit-PSD)
EP 4-3	Line 2 Headlap/BackSurfacing Unloading and Transfer Points with Baghouse	Opacity	1%	40 CFR Part 60 Subpart UU

Provisos for Line 2 Granule Handling and Storage

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of 40 CFR 60 Subpart UU, "Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture".	40 CFR Part 60 Subpart UU
3. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-14-.04
<u>Emission Standards</u>	
1. Particulate Matter emissions from the Line 2 Granule Storage Transfer Points and 24 Storage Silos with Baghouse (EP 4-1) shall not exceed 1.30 lbs/hr.	Rule 335-3-14-.04
2. Particulate Matter emissions from the Line 2 Butt Granule Unloading and Transfer Points with Baghouse (EP 4-2) shall not exceed 0.82 lbs/hr.	Rule 335-3-14-.04
3. Particulate Matter emissions from the Line 2 eadlap/BackSurfacing Unloading and Transfer Points with Baghouse (EP 4-2) shall not exceed 0.82 lbs/hr.	Rule 335-3-14-.04
4. The emissions from these units shall not exceed an opacity greater than 1%.	40 CFR 60.472(d)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05

Federally Enforceable Provisos	Regulations
Federally Enforceable Provisos	Regulations
<u>Emission Monitoring</u>	
1. The facility shall perform a visual check, once per week, of the stacks associated with these units. If any visible emissions are noted, maintenance inspections and/or corrective action to eliminate the visible emissions are to be initiated within two (2) hours.	Rule 335-3-16-.05(c)
2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.	Rule 335-3-16-.05(c)
3. A properly maintained and operated device shall be utilized to measure the pressure differential between the inlet and exhaust of the baghouses to determine if the pressure differential is within the manufacturer's recommended operating range. The pressure differential shall be checked on at least a weekly basis. Whenever the pressure differential is outside the manufacturer's recommended range, maintenance inspections and/or corrective action to bring the pressure differential within the manufacturer's recommended range are to be initiated within two hours.	Rule 335-3-16-.05(c)
<u>Recordkeeping and Reporting Requirements</u>	
1. Source observations, baghouse pressure differentials, corrective action, and all maintenance records of each source permitted under these units will be documented and available for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be available to the permitting authority upon request.	Rule 335-3-16-.05(c)
2. The permittee shall submit a written report of exceedence of the stack opacity to the Department semi-annually.	Rule 335-3-16-.05(c)

Summary Page for Heat Transfer Fluid Heating System

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
HTF	Heat Transfer Fluid Heating System including (3) 6MMBtu/hr Heaters	PM	(See General Proviso 30(a))	ADEM Admin. Code R. 335-3-4-.03
HTF	Heat Transfer Fluid Heating System including (3) 6MMBtu/hr Heaters	SO ₂	(See General Proviso 30(b))	ADEM Admin Code R. 335-3-5-.01
HTF	Heat Transfer Fluid Heating System including (3) 6MMBtu/hr Heaters	NO _x	N/A	N/A
HTF	Heat Transfer Fluid Heating System including (3) 6MMBtu/hr Heaters	CO	N/A	N/A
HTF	Heat Transfer Fluid Heating System including (3) 6MMBtu/hr Heaters	VOC	N/A	N/A
HTF	Heat Transfer Fluid Heating System including (3) 6MMBtu/hr Heaters	Opacity	(See General Proviso 29)	ADEM Admin. Code R. 335-3-4-.01(1)

Provisos for Heat Transfer Fluid Heating System

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
<u>Emission Standards</u>	
These units are subject to emission standards listed in General Proviso 29 and General Proviso 30.	Rule 335-3-4-.01(1) Rule 335-3-4-.03 Rule 335-3-5-.01
2. The 6.0 MMBtu/hr Heaters are permitted to burn only natural gas.	Rule 335-3-16-.05(a)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. There are no unit specific emission monitoring requirements for this source.	
<u>Recordkeeping and Reporting Requirements</u>	
1. There are no unit specific recordkeeping and reporting requirements for this source.	

Summary Page for Storage Tanks

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
Tank 4	22,600 Gallon Coating Asphalt Still #4	VOC	N/A	N/A
Tank 4	22,600 Gallon Coating Asphalt Still #4	Opacity	(See General Proviso 29)	ADEM Admin. Code R. 335-3-4-.01(1)
Tank 6	13,600 Gallon Sealant Still #6 vented to the tank heater air intake	VOC	N/A	N/A
Tank 6	13,600 Gallon Sealant Still #6 vented to the tank heater air intake	Opacity	0%	40 CFR Part 60 Subpart UU
Tank 8	25,000 Gallon Asphalt Flux Still #8 vented to the tank heater air intake	VOC	N/A	N/A
Tank 8	25,000 Gallon Asphalt Flux Still #8 vented to the tank heater air intake	Opacity	0%	40 CFR Part 60 Subpart UU
EP 9-1	1,200 Gallon Laminant Blend Tank & 1,200 Gallon Filled Asphalt Surge Tank vented to Mist Eliminator	VOC	N/A	N/A
EP 9-1	1,200 Gallon Laminant Blend Tank & 1,200 Gallon Filled Asphalt Surge Tank	Opacity	0%	40 CFR Part 60 Subpart UU

Provisos for Storage Tanks

Federally Enforceable Provisos	Regulations
<p><u>Applicability</u></p> <ol style="list-style-type: none"> 1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits". 2. This source is subject to the applicable requirements of 40 CFR 60 Subpart UU, "Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture". 	<p>Rule 335-3-16-.03</p> <p>40 CFR Part 60 Subpart UU</p>
<p><u>Emission Standards</u></p> <ol style="list-style-type: none"> 1. The 22,600 Gallon Coating Asphalt Still #4 (Tank 4) is subject to emission standards listed in General Proviso 29. 2. The emissions from the 13,600 Gallon Sealant Still #6 (Tank 6), 25,000 Gallon Asphalt Flux Still #8 (Tank 8), and 1,200 Gallon Laminant Blend Tank & 1,200 Gallon Filled Asphalt Surge Tank (EP 9-1) shall not exceed an opacity greater than 0%, except for one consecutive 15-minute period in any 24-hour period when the transferlines are being blown for clearing. The control device shall not be bypassed during this 15-minute period. 	<p>Rule 335-3-4-.01(1)</p> <p>40 CFR 60.472(c)</p>
<p><u>Compliance and Performance Test Methods and Procedures</u></p> <ol style="list-style-type: none"> 1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions. 	<p>Rule 335-3-1-.05</p>
<p><u>Emission Monitoring</u></p> <ol style="list-style-type: none"> 1. The facility shall perform a visual check, once per week, of the stacks associated with these units. 2. If the instantaneous opacity observed from the 22,600 Gallon Coating Asphalt Still #4 (Tank 4) is greater than fifteen (15%) percent, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two (2) hours. 	<p>Rule 335-3-16-.05(c)</p> <p>Rule 335-3-16-.05(c)</p>

Federally Enforceable Provisos	Regulations
<p>3. If any visible emissions are observed from the 13,600 Gallon Sealant Still #6 (Tank 6), 25,000 Gallon Asphalt Flux Still #8 (Tank 8), and/or the 1,200 Gallon Laminant Blend Tank & 1,200 Gallon Filled Asphalt Surge Tank (EP 9-1), maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two (2) hours.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>4. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.</p>	<p>Rule 335-3-16-.05(c)</p>
<p><u>Recordkeeping and Reporting Requirements</u></p>	
<p>1. Source observations, baghouse pressure differentials, corrective action, and all maintenance records of each source permitted under these units will be documented and available for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be available to the permitting authority upon request.</p>	<p>Rule 335-3-16-.05(c)</p>
<p>2. The permittee shall submit a written report of exceedence of the stack opacity to the Department semi-annually.</p>	<p>Rule 335-3-16-.05(c)</p>